

IN THE SPECIFICATION

Please amend the paragraph at page 2, lines 4-9 as follows:

The present invention was made in consideration of such a circumstance, as set forth above. An object of the present invention is to provide a data processing method enabling to make encrypted data provided following the authentication not to be deciphered even when key data of the authentication is obtained illegitimately by a third party.

Please amend the paragraph beginning at page 2, line 10 and concluding on page 3, line 10 as follows:

To attain the above object, a data processing method of a first invention is ~~A data processing method performed by a first processing device and a second processing device when the first data processing device holds first authentication key data and encryption key data and the second data processing device holds second authentication data corresponding to the first authentication data and decryption key data corresponding to the encryption data, and it has a first step by which the first data processing device uses the first authentication key data and the second processing device uses the second authentication key data, and authentication is performed between the first data processing device and the second data processing device,~~ a second step by which when the second data processing device verifies the first data processing device by the authentication in the first step, the first processing device uses the encryption key data for encryption and decrypts encrypted data provided to the second data processing device by using the decryption key data, and a third step by which when the second data processing device judges that decryption data obtained by the decryption in the second step is decrypted adequately, the

second data processing device uses the decryption data as the data is effective.

Please amend the paragraph at page 4, lines 1-4 as follows:

Then, in a third step, when the second data processing device judges that decryption data obtained by the decryption in the second step is decrypted adequately, the decrypted data is used as it is effective.

Please amend the paragraph beginning at page 4, line 17 and concluding on page 5, line 13 as follows:

Further, in the data processing method of the first invention, preferably, when the first authentication key data is generated by a predetermined generation method by using predetermined key data, the first step has a fourth step by which the first data processing device provides key designation data designating key data used for generation of the first authentication key data to the second data processing device, ; a fifth step by which the second data processing device generates the second authentication key data by a predetermined generation method by using the key data designated by the key designation data received -in the fourth step, ; a sixth step by which the first data processing device uses the first authentication key data and uses the second authentication key data generated by the second data processing device in the fifth step to perform the authentication, ; and a seventh step by which when the second data processing device judges that the first authentication data and the second authentication data are the same, the first data processing device is verified.

Please amend the paragraph at page 15, lines 21-23 as follows:

Processing shown as followings is performed depending on execution of the program 323 by the CPU 314 and execution of the program 343 by the CPU 334.

Please amend the paragraph at page 16, lines 8-14 as follows:

At this time, the authentication units 311 and 331 uses the first authentication key data 321 and 341 and perform encryption respectively and decryption of predetermined data based on a first encryption algorithm and a first decryption algorithm corresponding to the first encryption algorithm, and the authentication is performed.

Please amend the paragraph at page 28, lines 10-14 as follows:

Here, in the AP layer, the application programs AP_1, AP_2, and AP_3 prescribing procedures by the service businesses 165_1, 165_2; and 165_3 such as the credit card company shown in FIG. 5 using the IC cards 3 are read out from the external memory 7 and run.